

## In-Wall Loudspeaker Systems

WS320



WS350



WS320  
WS350

## Installing the Loudspeaker

The WS320 and WS350 In-Wall Loudspeaker Systems require at least 3-3/4 inch of wall depth, including the wallboard. They can be mounted into a wall surface with a thickness between 3/8 inch and 1 inch.

### Tools and Fasteners Required:

|                      |              |
|----------------------|--------------|
| Phillips Screwdriver | Tape Measure |
| Drywall Saw or Knife | Stud Finder  |
| Pencil               | Bubble Level |
| Cable Ties           |              |

### Parts Included:

|                                      |                       |
|--------------------------------------|-----------------------|
| Loudspeaker Baffle (1)               | Baffle Box (1)        |
| Frame (1)                            | Frame Gaskets (2)     |
| Grille (1)                           | Grille Fasteners (10) |
| Cutout Template (1)                  | Painting Mask (1)     |
| Clamping Pieces (2)                  | Baffle Washers #8 (6) |
| Airtight Electrical Connector (1)    |                       |
| Frame Screws #10-24 x 3 inch (6)     |                       |
| Baffle Screws #10-24x 1-1/2 inch (6) |                       |

### Optional Part:

RK320 Rough-In Bracket (designed to provide a cutout and mounting frame for installation during new construction).

### Use of Paint Mask

Set the Paint Mask between the baffle and grille to paint the grille and frame without getting paint on the baffle and Loudspeaker Elements.

### Installing the Frame

The Frame Assembly consists of the frame and two clamping pieces, held together with six 3 inch screws. These screws are fully extended to allow pushing the clamping pieces toward each other so the whole assembly fits into the cutout.

*Note: If the optional RK320 Rough-In Bracket has already been installed, go directly to step 3.*

1. Hold the supplied cutout template against the wall and align it using the bubble level. Tape the aligned template to the wall and trace the opening on the wall.
2. Cut out and remove the piece of wallboard. Pull enough Loudspeaker Cable to be able to connect it to the Loudspeaker Baffle while the baffle is still out of the wall.
3. Install the two "L" Shaped self adhesive Frame Gaskets to the rear of the frame so that it will be between the frame and the wall. Insert the right side of the assembly into the hole and push it to the right. This will give enough room to insert the left side of the assembly into the wall. Center the assembly in the opening.

4. Push the right side Clamping Piece up against the backside of the wallboard. Tighten the now protruding center screw enough to gently hold the frame in place. Repeat on the other side of the frame.
5. Use the bubble level to assure the frame is correctly positioned, and then tighten all the screws until the frame is securely attached to the wallboard.

*Note: To avoid crushing the wallboard, do not over tighten the screws. If the mounting position places the frame near a stud, remove the clamping piece and secure the frame directly to the stud, through the provided holes.*

### Installing the Baffle Box

Before setting the Baffle Box into the frame, run the Loudspeaker Wire through the supplied Airtight Electrical Connector and tighten the connector onto the Loudspeaker Cable. Be sure to pull enough wire through the connector to allow connection to the crossover network on the back of the Loudspeaker Baffle while it is still out of the wall. Set the Baffle Box into the frame.

*Note: The Baffle Box may be positioned with the Airtight Electrical Connector either at the top or bottom.*

### Connecting the Loudspeaker

The McIntosh WS320 and WS350 In-Wall Loudspeaker Systems utilize Binding Posts for Loudspeaker Cable Connections.

1. Connect a Loudspeaker Cable from the black or negative Loudspeaker Binding Post on the back of the Loudspeaker Baffle to the negative or common output terminal of one channel of the amplifier.
2. Connect a Loudspeaker Cable from the red or positive Loudspeaker Binding Post on the back of the Loudspeaker Baffle to the positive or 4 ohm output terminal of the same channel of the amplifier.

*Note: Be sure to tighten the Loudspeaker and Amplifier Binding Posts after connecting.*

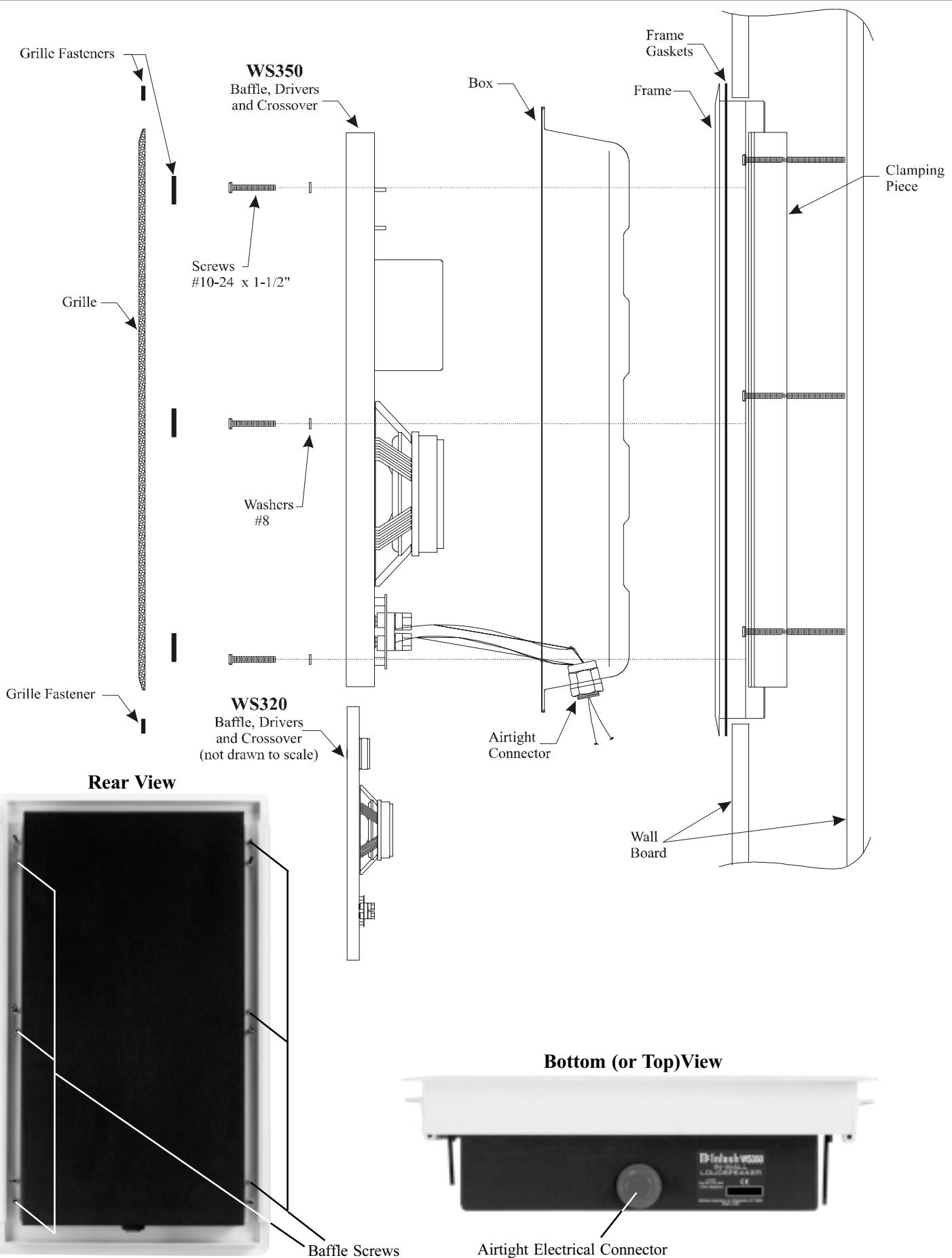
### Installing the Loudspeaker Baffle

Place the Loudspeaker Baffle into the frame/box assembly and screw it into place using the six supplied screws. Hold the baffle in place until at least two screws are properly secured.

*Note: Secure excess Loudspeaker Cable away from woofer cone with cable ties.*

### Installing the Grille

Press onto each Loudspeaker Grille the supplied Rubber Grille Fasteners, with three per side, two on the top and bottom edges of the grille. Press the perforated metal grille into the gap between the baffle and frame. Press all around the edge until the grille sits flush with the frame.



## **Please Take A Moment**

The serial number, purchase date and McIntosh dealer name are important to you for possible insurance claim or future service. The spaces below have been provided for you to record that information:

**Serial Number:** \_\_\_\_\_

**Purchase Date:** \_\_\_\_\_

**Dealer Name:** \_\_\_\_\_

## **Technical Assistance**

If at any time you have questions about your McIntosh product, contact your McIntosh dealer who is familiar with your McIntosh equipment and any other brands that may be part of your system. If you or your dealer wish additional help concerning a suspected problem, you can receive technical assistance for all McIntosh products at: McIntosh Laboratory, Inc.

2 Chambers Street

Binghamton, New York 13903

Phone: 607-723-1545

Fax: 607-723-3636

## **WS320 Performance Specifications**

### **Driver Complement**

8 inch Woofer

1 inch Dome Tweeter

### **Impedance**

4 ohm Nominal

### **Frequency Response**

60Hz - 20kHz  $\pm$  2dB (Anechoic Response)

### **Sensitivity**

86dB (2.8V/1m)

### **Crossover Frequency**

1.5kHz

### **Power Handling**

200 Watts Maximum

### **Dimensions**

23.5 inches (59.7cm) Height, 14 inches (35.5cm) Width,  
3.65 inches (9.3cm) Depth

### **Finish**

White Primer Coat

### **Weight (each)**

22 pounds (10kg) net, 29 pounds (13.2kg) in shipping carton

## **WS350 Performance Specifications**

### **Driver Complement**

8 inch Woofer

4 inch Midrange

Five 1 inch Dome Tweeters

### **Impedance**

4 ohm Nominal

### **Frequency Response**

60Hz - 20kHz  $\pm$  2dB (Anechoic Response)

### **Sensitivity**

85dB (2.8V/1m)

### **Crossover Frequencies**

300Hz and 1.5kHz

### **Power Handling**

200 Watts Maximum

### **Dimensions**

23.5 inches (59.7cm) Height, 14 inches (35.5cm) Width,  
3.65 inches (9.3cm) Depth

### **Finish**

White Primer Coat

### **Weight (each)**

25 pounds (11.3kg) net, 32 pounds (14.5kg) in shipping carton

The McIntosh logo is a stylized, gothic-style wordmark. The letters 'Mc' are joined together, and 'Intosh' is written in a larger, more prominent font. A registered trademark symbol (®) is located at the top right of the 'h'.

McIntosh Laboratory, Inc.

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